

WHAT IS CLAIMED IS:

1. An electricity accumulating element comprising a pair of electrodes, and a dielectric thin film and a solid electrolyte thin film sandwiched between the electrodes,
5 wherein the dielectric thin film is a metal oxide thin film.

2. The electricity accumulating element according to claim 1, wherein the thickness of the metal oxide thin film
10 is from 1 to 100 nm.

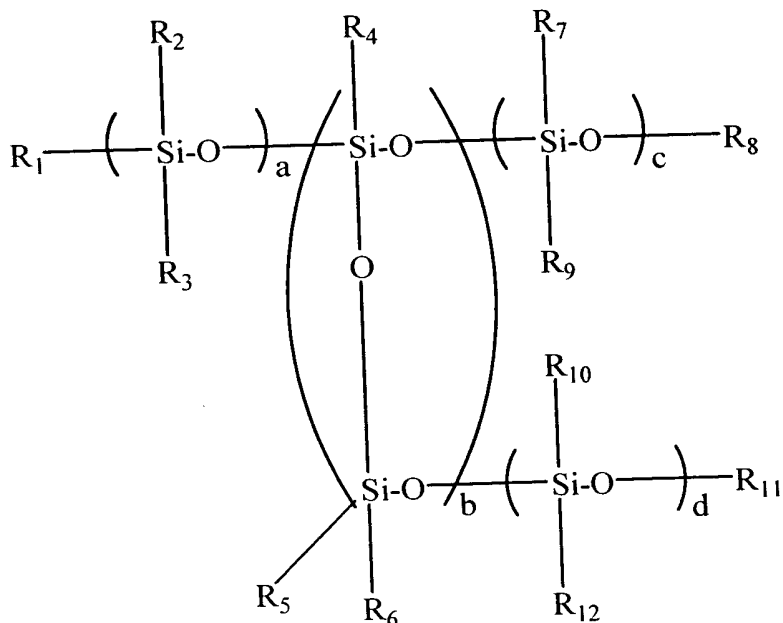
3. The electricity accumulating element according to claim 1, wherein the metal oxide thin film is a chromium oxide thin film.

4. The electricity accumulating element according to claim 3, wherein the chromium oxide thin film is a film
15 obtained by subjecting a chromium nitrogen oxide thin film to heat treatment at a temperature of 400 to 800 °C.

5. The electricity accumulating element according to claim 1, wherein the solid electrolyte thin film is a thin
20 film obtained by firing a silicon-containing compound at a temperature of 200 °C or more.

6. The electricity accumulating element according to claim 5, wherein the silicon-containing compound comprises at least one selected from a polysilane which is soluble in
25 organic solvent and a silicone compound having a chemical

structure represented by the general formula:



wherein R_1 to R_{12} , which may be the same or different, are each a group selected from the group consisting of an aliphatic hydrocarbon which has 1 to 10 carbon atoms and may be substituted with a halogen or a glycidyloxy group, an aromatic hydrocarbon group having 6 to 12 carbon atoms, and an alkoxy group having 1 to 8 carbon atoms; a , b , c and d are each an integer of 0 or more; and $a + b + c + d \geq 1$.

7. The electricity accumulating element according to claim 6, wherein the silicon-containing compound further comprises a silicon compound and at least one selected from a peroxide and a benzophenone derivative having a benzophenone structure.